

JP 6123013

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High strength and elasticity fibre with improved fatigue resistance - has aromatic polyester core and sheath of composite spun yarn of branched polyarylene bag filter rope printing cloth screen gauze

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Patent Family:

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Patent Details:

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Abstract (Basic): JP 6123013 A

Fibre (F) is a sheath/core type comprising (F1) core component of an aromatic polyester forming an anisotropic melt phase, and (F2) sheath component of a composite spun yarn of more than 80 wt.% of a branched poly(arylene-sulphide). Ratio of sectional area of (F2) component/whole area in the sectional form of (F) fibre is 0.05-0.6.

(F1) aromatic polyester is pref. of recurring units of formula (I) and (II) of which m.pt. is pref. 270-320 deg.C. peak temp. measured by DSC (differential scanning calorimeter). (F2) branched poly(arylene-sulphide of 80-99.9 mol% of recurring units of formula (III) which is prepd. by e.g. reacting p-dichloro-benzene with sodium-sulphide in the presence of 0.1-5 mol% of a polyhaloaromatic cpd. e.g. 1,2,3-trichlorobenzene, etc.

USE/ADVANTAGE - The fibre of sheath-core type is used as industrial material, partic. chemical proof rope, cloth, bag filter, etc. FRC, cloth for print substrate, screen gauze, etc. Fibre has superior chemical resistance and abrasion resistance.

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